

PROJECT TITLE : MATERIAL DEVELOPMENT
PERIOD COVERED : MARCH 25 - APRIL 29 1981
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1. CIGARETTE PAPER

Glatz 130 Molettevergé

Objective

Reduction in CO in MLF and MLK brands through the use of cigarette paper.

Summary

In October 1980, during the technical meeting with J. Glatz Papierfabriken, they informed us that they were able to produce cigarette papers that could reduce the CO values. It was decided during that meeting that we would send them the specifications of WP-60 paper used on Marlboro-CH brands, so that they could produce a paper with similar characteristics. We received the samples, and the analyses made on the physical characteristics did not show any significant difference from the standard WP-60 paper (Ref. 1).

Description of Samples and Results

In order to see if there is an appreciable decrease of CO without any change in tar and SN deliveries, MLF-CH cigarettes were made with the sample paper and compared to standard MLF-CH cigarettes. The dilution level achieved with the sample cigarettes is comparable to the standard (20%). The results of the smoke analyses have not yet been received.

Follow-up

As soon as the results of the smoke analyses are available and providing that a noticable decrease in CO (without any change in tar and SN levels) is achieved, the cigarettes will be submitted for taste evaluation.

2. STUDY

DILMA

Objective

Prediction of the type of filtration material to be used on a prototype in order to achieve the desired level of dilution and smoke deliveries.

Introduction

In recent years there has been an increase in the use of ventilation in the design of cigarettes. With ventilated cigarettes it is possible to achieve major reductions in all smoke components including those of the gas phase. The effects of dilution are not entirely a straight reduction of smoke components, as some are enhanced and others decreased in the effluent smoke stream. It is recognized that this dilution depends upon an interrelationship of a number of factors such as the RTD of the filter tip, the permeability of cigarette paper, tipping paper, filter plug wrap, the resistance to the influx of air through the tipping and filter plug wrap and the RTD of the cigarette column. One of the major problems encountered today in our New Product Development Department is the choice of filtration material to be used in a new brand in order to achieve the desired degree of dilution, smoke yield parameters and the total cigarette RTD. This increased interest in predicting the degree of dilution of a cigarette effected by ventilating the filter has led us to the development of a first model.

Description of the Model

The brief description of the model is given in the block diagram (Fig. 1).

Follow-up

A detailed description of the model will be published as soon as the testing phase is finished.

Reference

1. Erkohen-E Monthly Report pp 25-27 (March 1981)

ELE/nod/APRIL 30 1981

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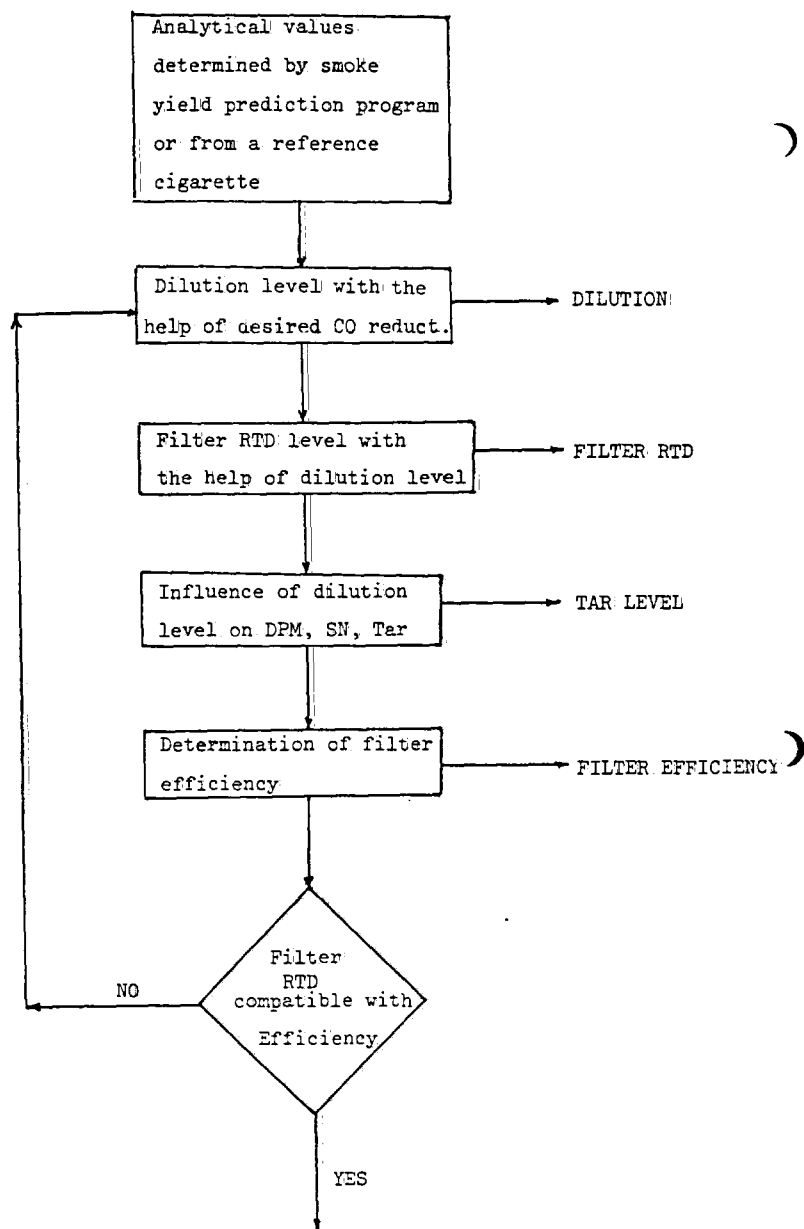


FIG I